## Abstract

A method for producing a micromechanical device, especially a micromechanical oscillating mirror device.

It is proposed, starting from the front side of an

5 SOI/EOI(epipoly on insulator) substrate, to penetrate to the
desired depth of the silicon substrate layer (1) in two
successive, separate deep etching steps, and to use this in
its upper region that is close to the oxide layer as
sacrificial layer for vertically exposing the island

10 structures (6) that are positioned above the oxide layer (2)
in the functional layer (3). The concept according to the
present invention of a sacrificial layer process for
generating large vertical deflections is based on purely
surface micromechanical process steps.

15 Figure 8